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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A molecular binding bonding method comprising steps of:

preparing a support having fixed thereon an intermediate excitation medium the composition

of which is the same before and after excitation and after transfer of excitation energy or electrons;

arranging said intermediate excitation medium on said support so as to face at a specific

distance either one or both of a first molecule having a binding bonding residue and a binding

bonding target to be bound bonded to said first molecule; and

binding bonding said first molecule, which is in the vicinity of said intermediate excitation

medium which has been excited, with said binding bonding target by supplying external energy to

said intermediate excitation medium so as to excite said intermediate excitation medium.

2. (Currently Amended) The molecular binding bonding method according to Claim 1,

wherein said step of binding bonding is a step of binding bonding with either one or both of said

first molecule and said binding bonding target fixed on a fixing member.

3. (Currently Amended) The molecular binding bonding method according to Claim 2,

wherein said step of preparing a support is a step of preparing a support having a relief or uneven

pattern, the pattern having provided thereon with said intermediate excitation medium, and wherein

said step of binding bonding is a step which uses, of said intermediate excitation medium which has

been excited, only said intermediate excitation medium on the protruding parts of said relief or

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uneven pattern.

4. (Currently Amended) The molecular binding bonding method according to Claim 2,

wherein said step of preparing a support is a step of preparing a support having one or more than

one of said intermediate excitation medium fixed on the tip thereof, and wherein said step of

binding bonding is a step of using said intermediate excitation medium which has been excited on

said tip.

5. (Currently Amended) The molecular binding bonding method according to Claim 2,

wherein said binding bonding is accomplished with said support positioned accurately enough with

respect to said fixing medium so as to achieve said binding bonding.

6. (Currently Amended) The molecular binding bonding method according to Claim 5,

wherein said binding is accomplished with said accuracy of 1 nm or less.

7. (Currently Amended) The molecular binding bonding method according to Claim 1,

wherein said binding bonding is accomplished by means of binding bonding energy which moves

from said intermediate excitation medium which has been excited to said first molecule.

8. (Currently Amended) The molecular binding bonding method according to Claim 7,

wherein movement of binding bonding energy from said intermediate excitation medium to said

first molecule is accomplished by excited triplet energy transfer.

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9. (Currently Amended) The molecular binding bonding method according to Claim 1,

wherein said binding is accomplished due to transfer of electrons between said intermediate

excitation medium which has been excited and said first molecule.

10. (Currently Amended) The molecular binding bonding method according to Claim 1,

wherein said external energy is supplied by supplying light, electrons or ions to said intermediate

excitation medium.

11. (Currently Amended) The molecular binding bonding method according to Claim

10, wherein, when said intermediate excitation medium is a photosensitized molecule, said external

energy is supplied by exposure to said light.

12. (Currently Amended) The molecular binding bonding method according to Claim

11, wherein a N-acetyl-4-nitro-1-naphthylamine derivative is used as said photosensitized molecule.

13. (Currently Amended) The molecular binding bonding method according to Claim 9,

wherein, when said intermediate excitation medium is a photocatalyst, said external energy is

supplied by exposure to said light.

14. (Currently Amended) The molecular binding bonding method according to Claim

13, wherein titanium dioxide is used as said photocatalyst.

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15. (Currently Amended) The molecular binding bonding method according to Claim 1,

wherein a second molecule having a binding bonding residue is used as said binding target.

16. (Currently Amended) The molecular binding bonding method according to Claim 1,

wherein a material body other than a molecule is used as said binding bonding target.

17. (Currently Amended) A molecular binding bonding device comprising:

an intermediate excitation medium the composition of which is the same before and after

excitation and after transfer of excitation energy or electrons;

a support on which the intermediate excitation medium is fixed and on which the

intermediate excitation medium faces at a specific distance either one or both of a first molecule

having a binding bonding residue or a binding bonding target to be bound to said first molecule; and

an external energy supply source which supplies external energy which excites said

intermediate excitation medium and causes said first molecule in the vicinity of said intermediate

excitation medium which has been excited to bind bond to said binding bonding target.

18. (Currently Amended) The molecular binding bonding device according to Claim 17,

wherein either one or both of said first molecule and said binding bonding target is fixed to a fixing

member.

19. (Currently Amended) The molecular binding bonding device according to Claim 18,

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wherein said support is a support having a relief or uneven pattern provided with said intermediate

excitation medium.

20. (Currently Amended) The molecular binding bonding device according to Claim 18,

wherein said support is a support with one or more than one of said intermediate excitation medium

fixed to the tip thereof.

21. (Currently Amended) The molecular binding bonding device according to Claim 18,

wherein said support is positioned accurately enough with respect to said fixing member so as to

achieve said binding bonding.

22. (Currently Amended) The molecular binding-bonding device according to Claim 21,

wherein said accuracy is 1 nm or less.

23. (Currently Amended) The molecular binding bonding device according to Claim 17,

wherein said intermediate excitation medium which has been excited generates binding bonding

energy which moves from said intermediate excitation medium which has been excited to said first

molecule to achieve said-binding bonding.

24. (Currently Amended) The molecular binding bonding device according to Claim 17,

wherein said intermediate excitation medium which has been excited accomplishes said binding

bonding by transfer of electrons between said intermediate excitation medium which has been

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excited and said first molecule.

25. (Currently Amended) The molecular binding bonding device according to Claim 17,

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wherein said external energy is light, electrons or ions.

26. (Currently Amended) The molecular binding bonding device according to Claim 25,

wherein, when said intermediate excitation medium is a photosensitized molecule, said external

energy is said light.

27. (Currently Amended) The molecular binding bonding device according to Claim 26,

wherein said photosensitized molecule is a N-acetyl-4-nitro-1-naphthylamine derivative.

28. (Currently Amended) The molecular binding bonding device according to Claim 25,

wherein, when said intermediate excitation medium is a photocatalyst, said external energy is said

light.

29. (Currently Amended) The molecular binding bonding device according to Claim 28,

wherein said photocatalyst is titanium dioxide.

30. (Currently Amended) The molecular binding bonding device according to Claim 17,

wherein said binding bonding target is a second molecule having a binding bonding residue.

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31. (Currently Amended) The molecular binding bonding device according to Claim 17, wherein said binding target is a material body other than a molecule.

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- 32. (Currently Amended) The molecular binding bonding device according to Claim 17, wherein said intermediate excitation medium is fixed to said support by chemical bonds.
- 33. (Currently Amended) The molecular binding bonding device according to Claim 17, wherein said binding bonding residue is an aliphatic residue having an unsaturated double bond or unsaturated triple bond.
- 34. (Currently Amended) The molecular binding bonding device according to Claim 17, wherein said binding bonding residue is an aromatic residue having an unsaturated double bond or unsaturated triple bond.
- 35. (Currently Amended) The molecular binding bonding device according to Claim 34, wherein, when said aromatic residue having said unsaturated double bond is a cinnamic acid residue, said intermediate excitation medium is N-[3-{3,5-bis{3,5-bis[3,5-bis[4-mercaptobenzylthio]benzylthio}benzylthio}benzylthio}-propionyl-4-nitro-1-naphthylamine.